

# A CONFIGURABLE MULTIMODE DESPREADER FOR SPREAD SPECTRUM APPLICATIONS

---

## 5 ABSTRACT OF THE DISCLOSURE

10 A configurable multimode despreaders for spread spectrum applications is disclosed herein. The despreaders includes a plurality of data lines, at least one selective coupler coupled to the plurality of data lines, at least one multiplier coupled to the selective coupler, and a code input line coupled to the multiplier. The selective coupler selectively couples one of the plurality of data lines with the multiplier per any one of a plurality of despreaders protocols. The multiplier then multiplies a desired input data type received from the selective coupler with a despreaders code chip received from the code input line to produce an observation. The programmable multimode despreaders supports variable code and data modulation schemes and variable spreading factors.

15

20

25

30

35